## ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION                  | INITIALS | ID NO. | DATE     |  |  |  |  |  |
|---------------------------|----------|--------|----------|--|--|--|--|--|
|                           | EA       |        | 10-01-01 |  |  |  |  |  |
| FEE DETERMINATION         |          |        |          |  |  |  |  |  |
| O.I.P.E. CLASSIFIER       |          | 41     | 10/10/01 |  |  |  |  |  |
| FORMALITY REVIEW          | #5       | 86/    | 10.00.01 |  |  |  |  |  |
| RESPONSE FORMALITY REVIEW | •        |        |          |  |  |  |  |  |

## INDEX OF CLAIMS

| v Rejected                 | N              |
|----------------------------|----------------|
| =Allowed                   | I Interference |
| (Through numeral) Canceled | A Appeal       |
| ÷ Restricted               | OObjected      |

|          |          |          |        |          |              |              |              |                |          |          | _        | _          |          |              |            |          |          |          | _        | Claim Date |          |               |          |          |            |          |               |          |          | _        |          |          |          |          |
|----------|----------|----------|--------|----------|--------------|--------------|--------------|----------------|----------|----------|----------|------------|----------|--------------|------------|----------|----------|----------|----------|------------|----------|---------------|----------|----------|------------|----------|---------------|----------|----------|----------|----------|----------|----------|----------|
| C        | J        |          | 7      | . 5      | _            | Dat          | 8            | _              |          |          | _        | _          | alm      | Oate         |            |          |          |          |          |            |          |               | Cla      | - I      |            | Date     |               |          |          |          |          | _        |          |          |
| Final    | Driginat | 17/56/04 | J'reji | XX/23/05 |              |              |              |                |          |          |          | Fhai       | Original |              |            |          |          |          |          |            |          |               |          | Finel    | Original   |          |               |          |          | İ        |          |          |          |          |
| Ħ        | G        | 7        | 17     | 1.7      | 1            | Н            |              |                |          | 7        | ᅥ        |            | 51       | П            |            | 7        | 7        | 7        |          | П          | ┪        | 7             | 7        |          | 101        |          | П             | $\neg$   |          |          | $\neg$   | ┪        | ╛        | 1        |
| -        | 1        | ¥.       | H      | ۲.       | -            |              |              | -              | -        | -        | ᅥ        | <u> </u>   | 52       | Н            | _          | 7        | ┪        | 7        | 7        | 7          | 7        | +             | 1        | $\vdash$ | 102        |          | Н             |          | _        | $\neg$   | $\neg$   | 7        | ┪        |          |
| -        | 3        | +        | H      | Η,       | ₽            | Н            | Н            | Н              | Н        | Н        | ᅱ        | -          | 53       | Н            | $\neg$     | ┪        | ┰        | -        | -1       | -          | -+       | ╅             | 1        |          | 103        | $\vdash$ | Н             | -        | -        | -        | -        | 7        | ᅥ        | _        |
| -        |          | 4        | H      | IY,      | ₩            | Н            | Н            | Н              | -        | Н        | ⊣        | -}-        | 54       | Н            | -          | -        | -+       | -        | -        |            | -        | ┿             | -        | $\vdash$ | 104        | +-       | Н             |          | -1       | -        | $\dashv$ | ┪        | -        | -        |
| $\vdash$ | Ġ        | 4        | H      | ¥        | ╀            | Н            | $\perp$      | Н              | -        | Н        |          | - }-       | 55       | Н            | $\dashv$   | -        | -+       | -1       | -1       | ┥          | ┥        | +             | -1       | -        | 105        | ╫        | Н             | $\dashv$ | ⊣        | ┥        | -        | ⇥        | $\dashv$ | _        |
| <b> </b> | 1        | 4        | H      | ١.,      | <u> </u>     | Ш            | Н            | Н              |          | Н        | 4        | -          |          | Н            | Н          |          |          | -        |          | ⇁┤         | -+       |               | 4        | $\vdash$ | _          | ╀        | Н             |          | $\dashv$ | -1       |          | -+       | -        | _        |
| L        | 6        | 4        | Ц      | ¥        | 1_           | Ш            | Ш            | Щ              | Ш        |          | 4        | <u> </u>   | 56       | -            | _          |          |          |          | -        |            | -        | -             | 4        | -        | 106        | ╁        | Н             |          |          | _        |          | -+       |          |          |
|          | 7        | 4        | Ц      | Ц        | _            | Ш            | Ц            | Ш              | Ш        |          | $\sqcup$ | _          | 57       | Ш            | _          |          |          | ᅬ        | _        | _          | -4       | 4             | 4        |          | 107        | ļ        | Ш             |          |          | _        | 4        | -+       | -        |          |
| L        | В        | Ц        | Ц      | 11       | L            | $\Box$       |              | Ш              | Ш        |          | Ц        | L          | 58       | Ш            |            | _        | 4        | _        | _        | _          | _        | 4             | 4        | <u></u>  | 108        | ↓        | Ш             | _        | _        | _        | _        | _        | _        |          |
|          | (9)      | Ш        | Ц      | V        | 1_           |              |              |                | Ш        |          | ╝        | L          | 59       | Ц            |            | _        | _        | ᆜ        | _        | _          | _        | ᆚ             | 1        | $\perp$  | 109        | 上        | Ш             | _        | _        |          |          | _        | _        |          |
| Г        | 3.       | H        | П      | I        |              |              |              |                |          |          |          | L          | 60       |              |            |          |          |          |          | [          | _        |               | ╛        | ᆫ        | 110        | _        | Ш             |          |          |          | Ш        | ┙        |          |          |
| Г        | 11       | Т        | Π      | V        | Т            |              |              |                |          |          |          |            | 61       |              |            |          |          | $\Box$   |          | $\Box$     | $\Box$   |               | ]        |          | 111        | L        | LJ            |          |          |          |          |          |          |          |
| Г        | 12       | П        | Π      | 11       | Γ            |              |              |                |          |          |          | Γ          | 62       |              |            | _]       |          |          |          |            | J        | $\mathcal{I}$ | ]        |          | 112        | $\prod$  |               |          |          |          |          | $\Box$   | _]       |          |
|          | 13       | Π        | Ħ      | П        | Τ            |              | П            |                | П        | П        |          | Г          | 63       |              |            | $\neg$   | $\neg$   | ╗        |          | 1          |          |               | ]        |          | 113        | Ι        |               |          |          |          | ▔        | П        | _1       |          |
| T        | MA       | V        | Ħ      | 11       | Τ            |              |              | П              | П        | П        |          |            | 64       | П            |            |          | 7        | ┪        | ╗        | $\neg$     | 7        | ╗             | 1        |          | 114        | Т        | П             | П        |          |          | П        | $\neg$   | $\Box$   |          |
| 1        | 15       | _        | Ħ      | ††       | t            |              | Ι-           | П              | Н        | Н        | $\dashv$ | · -        | 65       | П            | П          | _        | -1       | 7        | ┪        | _          | ┪        | 1             | ٦        |          | 115        | Т        | П             | П        |          | П        | ╗        | ヿ        | ╛        |          |
| -        | 16       | $\vdash$ | Ħ      | Ħ        | <del> </del> | 1            |              |                |          | -        | $\dashv$ | <u> </u>   | 66       | П            |            | ┪        | -1       | -1       | ┪        | $\dashv$   | _        | $\top$        | 1        |          | 116        | 1        | П             |          |          | П        | $\neg$   | $\neg$   | ヿ        | _        |
| -        | 17       | -        | H      | ††       | ╆┈           | -            | -            | -              |          | Н        | $\dashv$ | <u> </u>   | 67       | Н            |            | -1       |          |          | -1       | _          | ┪        | $\dashv$      | ٦        | <b>—</b> | 117        | †~       | М             |          |          |          | コ        | ╗        | _        |          |
| -        | 18       | -        | ý      | -        | ╁╌           | -            | -            | -              | -        | Н        | $\dashv$ | ⊢          | 68       | Н            |            | _        | -        | -        |          |            | 7        | +             | ٦.       |          | 118        | +-       |               | _        | -        |          | $\Box$   | 7        |          | ·        |
| H        | 19       | -        | ₽×     | Y        | ╀─           |              | -            | ┝              | -        | Н        | $\dashv$ | ⊢          | 69       | ╌            | -          |          | $\dashv$ | -        |          | ┪          | ┪        | +             | ┪        | $\vdash$ | 119        | +        | Н             | -        |          | -        | $\Box$   | 7        | _        |          |
| $\vdash$ | -        | $\vdash$ | ┝      | ╄        | ╀            |              | ┝            | -              | -        | Н        |          | -          | -        | $\vdash$     | Н          |          | ᅱ        | ┥        |          | -          | ┥        | +             | ┥        | -        | _          | +        | Н             | -        | -        | -        | -        | ┪        |          | _        |
| L        | 20       | L        | L      | L.       | L            |              |              |                | _        |          | _        | <u></u>    | 70       | L            |            | _        | _        | _4       | _        | _          | _        | 4             | 4        | _        | 120        | 4        | Ш             |          |          | _        | $\vdash$ | 4        | _        |          |
| L        | 21       | Ц        | L      | L        | ┖            |              | ot           |                |          | Ц        | Ш        | ⊢          | 71       | L            |            |          | _        | _        | _        |            | _        | 4             | 4        | _        | 121        | ╄        | Ш             |          |          |          |          | _        | ᅴ        |          |
|          | 22       |          | L      |          | l            |              |              |                |          |          |          | L          | 72       | Ш            |            |          |          | _        | _        |            | _        | _             | 4        | _        | 122        | ┸        | Ц             | Щ        |          |          | Ш        | ᆚ        | _        | _        |
| Г        | 23       |          |        |          | Г            |              |              |                |          |          |          |            | 73       |              |            |          |          |          |          |            |          |               | ╝        | $\perp$  | 123        |          | Ш             |          |          |          | Ш        | _        |          |          |
| Г        | 24       | Г        | Г      | Т        | Т            | П            | Г            |                |          |          |          | Г          | 74       |              |            |          |          |          |          |            |          |               |          |          | 124        |          |               |          |          |          |          |          |          |          |
|          | 25       | Г        | Т      | 1        | 1            |              |              |                |          | П        |          |            | 75       | П            |            |          |          |          |          | $\Box$     | П        | Т             | ٦        |          | 125        | Т        |               |          |          |          |          |          |          | _        |
|          | 26       | ┍        | 1      | ✝        | +            | _            | Т            | _              |          |          | П        |            | 76       |              |            |          |          | ᅥ        | $\neg$   |            | $\neg$   |               | 7        |          | 126        | 1        |               |          |          |          |          | П        |          | _        |
| -        | 27       | ┢        | ✝      | +        | ✝            | ✝            |              | 1              |          |          | П        | ┌          | 77       |              |            |          |          | 7        | _        |            | 7        |               | 7        |          | 127        |          |               |          |          |          | П        | $\neg$   |          |          |
| $\vdash$ | 28       | ┢        | t      | ┪        | ╁            | 1            | 1            | 1              | 1        | Н        | ⊣        | <b> </b>   | 78       | Н            |            |          | _        | ┪        | $\dashv$ | $\dashv$   | ┪        | -             | ┪        |          | 128        | †        |               | -        |          |          |          | ┪        | П        | _        |
| -        | 29       | ⊢        | ╁      | ╁        | ╆            | ╫            | ├-           | -              | -        | ┢╾┥      | ᅥ        | - H        | 79       | 1            |            |          | $\dashv$ | ┪        | ┪        | $\dashv$   | ┪        | $\neg$        | ┪        | $\vdash$ | 129        | +-       | М             | П        | т        |          | П        | ┪        | $\neg$   | _        |
| -        | 30       | ├        | ┿      | ┿        | ╁╌           | -            | ⊢            | -              | -        | Н        | ⊣        |            | 80       | -            | -          | -        | -        |          |          | $\dashv$   | -        | +             | ┪        | -        | 130        | +        | <del>  </del> | -        | -        | Н        | $\Box$   | 一        | $\dashv$ | _        |
| -        | 31       |          | ╁      | ╁╌       | ┿            | ╁            | <del> </del> | -              | ١        | Н        | $\dashv$ | .}         | 81       |              |            | $\dashv$ |          |          |          |            |          | +             | ┥        | -        | 131        | ┿        | Н             |          | -        | -        | $\vdash$ | $\dashv$ | -        |          |
| 1        | -        | H        | ╀-     | ╄╌       | ╄            | ┡            | ├-           | H              | -        | Н        | $\dashv$ | ` <b>-</b> | -        | -            | -          |          |          | -        |          | $\dashv$   | -        | -+-           | ┥        | -        | 132        | ┿        | Н             | -        | -        | -        | Н        | -        | $\dashv$ | _        |
| -        | 32       | Ļ        | ╄      | ╄        | ╁            | ŀ            | ┞-           | H              | -        | Н        | Н        | <u> </u>   | 82       | -            | -          | $\dashv$ | -        | ᅱ        |          | Н          |          | +             | ⊣        | $\vdash$ |            | +        | Н             | Н        | _        | Н        | Н        | ┵        | -        | _        |
| -        | 33       | $\vdash$ | 1      | ╄-       | ↓_           | ├-           | -            | -              | -        | Н        | Н        | <u> </u>   | 83       | -            | <b> </b>   | Н        | $\dashv$ | 4        | 4        | _          | -4       | +             | 4        | -        | 133        | +        | Н             | Н        | -        | Н        |          | -        |          |          |
| -        | 34       | <u> </u> | 1      | 1        | 1            | ↓_           | <b> </b>     | <u> </u>       | <b> </b> | <u> </u> | Ш        | <u> </u>   | 84       | Н.           | Ш          | Н        | _        | _        | _        |            |          | +             | 4        | -        | 134<br>135 | +        | -             | Щ        | _        | ш        |          |          | $\dashv$ | _        |
| $\vdash$ | 35       | L        | ₽      | 1        | ↓_           | <b> </b>     | ╙            | _              | _        | Ŀ        |          | <u> </u>   | 85       | ₩.           | Щ          | _        | _        | _        | _        |            |          | _             | 4        | -        |            | +-       |               | ١        | _        |          |          |          | 4        | _        |
| $\vdash$ | 38       | L        | Ļ      | ╄        | L            | ↓_           | <u> </u>     | _              | Ш        | Ц        | Ш        | Ļ          | 86       | ш            | Ш          | Ц        | _        | _        | _        | Щ          | _{       | 4             | 4        | 1        | 136        | ╁        | Н             | ш        | _        | Ш        | Щ        | 4        | Щ        | _        |
| L        | 37       | L        | L      | ┸        | L            | $\perp$      | <u>_</u>     | _              |          |          | Ш        | L          | 87       | Ш            | L.         |          |          |          | _        |            | _        | 4             | 4        | _        | 137        | 4_       | Ш             | Ш        | _        |          | Ш        | _        | Ш        | _        |
|          | 38       | Ľ        | Γ      | Γ        | Ĺ            |              |              |                |          |          |          |            | 88       |              |            |          |          |          |          |            |          |               | ┛        | L        | 38         | 丄        | ш             |          |          | Ш        | Ш        |          | Ш        | _        |
|          | 39       | L        | Γ      | Γ        | Γ            |              |              |                |          |          |          |            | 69       |              |            |          |          | ╝        |          |            |          |               | ╛        | L        | 139        | L        |               |          |          |          | لنا      |          | لــا     |          |
| Γ        | 40       | Γ        | Γ      | Г        | Γ            | T            | 1            |                |          | П        |          | ·[         | 90       |              |            |          |          | ٦        | $\neg$   |            |          | T             | ]        | [        | 140        | 1        |               |          |          |          |          |          |          |          |
| Г        | 41       | Г        | T      | 1        | Т            | 1            | Т            |                |          | П        | П        |            | 91       | Г            |            |          |          |          | ٦        |            | 7        | T             | ٦        |          | 141        | Τ        |               |          |          |          | П        | П        | П        | Г        |
|          | 42       | Н        | ۲      | +        | ۲            | 1-           | 1            | $\vdash$       | Н        | Н        | Н        | -          | 92       | ┪            |            | Н        | -        | -        | ┪        | $\vdash$   | 7        | $\dashv$      | ┪        |          | 142        | T        | П             | П        | П        | П        | М        | ┪        | П        | _        |
| $\vdash$ | 43       | H        | ┿      | +-       | ┰            | <del> </del> | $\vdash$     | ┢              | -        | Н        | Н        | $\vdash$   | 93       | _            |            | Н        | $\dashv$ | $\dashv$ | $\dashv$ | $\vdash$   | ┪        | +             | ٦        | $\vdash$ | 143        | +-       | Н             | Н        | Н        | Н        | П        | 一        | П        | _        |
| -        | 44       | -        | +      | +        | ╁            | +-           | ╁            | 1              | Н        | Н        | Н        | <b> </b>   | 84       |              | 1          | Н        |          | $\dashv$ | $\dashv$ | $\vdash$   |          | $\dashv$      | ٦        | -        | 144        | +-       | Ħ             | Н        | Н        | Н        | Н        | ┪        | Н        | _        |
| -        | 45       | -        | ۲      | ╀        | ╁            | ╁            | ╁            | ₩              | 1        | H        | ┉        | -          | 05       |              | -          |          | -        |          | -        | Н          | -        | +             | $\dashv$ | -        | 145        | +        | ╅┈            | -        | Н        | Н        | -        | -        | М        |          |
| -        |          | ۲        | ╀      | ╀        | ╀            | ⊢            | ⊢            | -              | -        | -        | ⊢┥       |            | 98       | -            | H          | $\vdash$ | $\vdash$ | Н        | $\dashv$ | Н          |          | +             | ┥        | $\vdash$ | 146        | +-       | <del> </del>  | ┝        | -        | ┝┯┥      | -        |          | $\vdash$ | _        |
| $\vdash$ | 46       | -        | ╀      | ╄        | ╄            | ┼-           | ₩            | <del>!</del>   | -        | Н        | Н        | $\vdash$   |          | $\vdash$     | -          | Н        | Н        | $\dashv$ | $\dashv$ | Н          | Н        | $\vdash$      | 4        | $\vdash$ |            | +-       | ╁             | -        | -        | -        | Н        |          | Н        | <u> </u> |
| $\vdash$ | 47       | L        | ╀      | 1-       | ╄            | ١.           | ⊢            | <del>  -</del> |          | H        | Н        | <br> -     | 97       | <del> </del> | ├          | Н        | Ļ.       | _        | _        | Н          |          | +             | 4        | -        | 147        | ┿        | -             | $\vdash$ | -        | $\vdash$ | Н        | $\dashv$ | Н        | $\vdash$ |
| <b></b>  | 48       | _        | 1      | 1        | 1            | ↓_           | <b> </b>     | ⊢              | -        | <b> </b> | Ш        | <u> </u>   | 88       |              | <b>!</b> — | Ш        | $\dashv$ | Ц        | _        | Щ          | $\dashv$ | -             | 4        | $\vdash$ | 148        | +        | ₽-            | <b> </b> | H        | Н        | Ш        | Н        | Н        | -        |
| <b> </b> | 49       | L        | L      | 4        | 1            | ↓_           | ┞            | <b>_</b>       | 1        | ļ.,      | Ш        | $\vdash$   | 99       |              |            | Ш        | Щ        | Ц        |          | Щ          | Ш        | Щ.            | 4        | <b> </b> | 149        | ↓        | ┞-            | ⊢        | $\vdash$ | Н        | Щ        | $\dashv$ | Н        | -        |
| L_       | 50       | L        | L      | 1        | L            |              | Щ            | L              | L.,      | L        | ليا      | L          | hoc      | ١            |            | Ш        |          |          |          |            |          | Щ.            | L        | Ŀ        | 150        |          | ــــا         |          |          | لببا     | لينا     |          | ليا      | _        |

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